

Title (en)
INTEGRATED EXPLOSION PROTECTION APPARATUS FOR SUPERVISION AND CONTROL OF ADVANCED ELECTRICAL APPARATUSES

Title (de)
EXPLOSIONSCHUTZVORRICHTUNG ZUM ÜBERWACHEN UND STEuern EINER ELEKTRISCHEN VORRICHTUNG

Title (fr)
APPAREIL INTEGRE DE PROTECTION CONTRE LES EXPLOSIONS POUR LA SURVEILLANCE ET LE CONTROLE D'APPAREILS ELECTRIQUES DE POINTE

Publication
EP 1973709 B1 20170628 (EN)

Application
EP 06842648 A 20061221

Priority
• IB 2006054993 W 20061221
• SE 0502927 A 20051228

Abstract (en)
[origin: WO2007074416A2] The invention refers to an explosion protection system for electrical apparatuses and machineries, such as manipulators or industrial robots, located in hazardous environments, i.e. environments containing explosive concentrations of inflammable gases, dusts or vapours, comprising means for applying internal pressurized air into an explosion proof enclosure and that has a purging system and electrical components, such as motors, relays, IC-boards, cables etc. The invention is achieved by, that a flow-and pressure sensor is arranged as an integrated unit and designed to stand high dynamic forces by having low inertia, balanced arrangement of moving parts and a movement guide, e.g. an axle with a support guide, with low friction.

IPC 8 full level
B25J 19/00 (2006.01)

CPC (source: EP US)
B25J 19/0079 (2013.01 - EP US)

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
WO 2007074416 A2 20070705; WO 2007074416 A3 20071122; CN 101351311 A 20090121; EP 1973709 A2 20081001; EP 1973709 B1 20170628; SE 0502927 L 20070629; SE 530546 C2 20080701; US 2008287050 A1 20081120

DOCDB simple family (application)
IB 2006054993 W 20061221; CN 200680049758 A 20061221; EP 06842648 A 20061221; SE 0502927 A 20051228; US 14706808 A 20080626